#### §213.51

- (1) Along the right-of-way, and
- (2) At highway-rail crossings; (This paragraph (b)(2) is applicable September 21, 1999.)
- (c) Interfere with railroad employees performing normal trackside duties;
- (d) Prevent proper functioning of signal and communication lines; or
- (e) Prevent railroad employees from visually inspecting moving equipment from their normal duty stations.

## **Subpart C—Track Geometry**

#### §213.51 Scope.

This subpart prescribes requirements for the gage, alinement, and surface of track, and the elevation of outer rails and speed limitations for curved track.

#### §213.53 Gage.

- (a) Gage is measured between the heads of the rails at right-angles to the rails in a plane five-eighths of an inch below the top of the rail head.
- (b) Gage shall be within the limits prescribed in the following table—

Class of track	The gage must be at least—	But not more than—
	N/A 4'8" 4'8" 4'8"	4'10¼". 4'10". 4'9¾". 4'9½".

### §213.55 Alinement.

Alinement may not deviate from uniformity more than the amount prescribed in the following table:

	Tangent track	Curved track	
Class of track	The deviation of	The deviation of	The deviation of
	the mid-offset	the mid-ordinate	the mid-ordinate
	from a 62-foot	from a 31-foot	from a 62-foot
	line <sup>1</sup> may not be	chord <sup>2</sup> may not	chord 2 may not
	more than—	be more than—	be more than—
	(inches)	(inches)	(inches)
Class 1 track Class 2 track Class 3 track Class 4 track Class 5 track	5	<sup>3</sup> N/A	5
	3	<sup>3</sup> N/A	3
	13/4	1 <sup>1</sup> / <sub>4</sub>	13/4
	11/2	1	11/2
	3/4	1/ <sub>2</sub>	5/8

<sup>&</sup>lt;sup>1</sup>The ends of the line shall be at points on the gage side of the line rail, five-eighths of an inch below the top of the railhead. Either rail may be used as the line rail, however, the same rail shall be used for the full length of that tangential segment of track

# § 213.57 Curves; elevation and speed limitations.

(a) The maximum crosslevel on the outside rail of a curve may not be more than 8 inches on track Classes 1 and 2 and 7 inches on Classes 3 through 5. Except as provided in §213.63, the outside rail of a curve may not be lower than the inside rail. (The first sentence of paragraph (a) is applicable September 21, 1999.)

(b)(1) The maximum allowable operating speed for each curve is determined by the following formula—

$$V_{\text{max}} = \sqrt{\frac{E_a + 3}{0.0007D}}$$

Where-

 $V_{max}$  = Maximum allowable operating speed (miles per hour).

track.

The ends of the chord shall be at points on the gage side of the outer rail, five-eighths of an inch below the top of the rail-heard

head. <sup>3</sup> N/A—Not Applicable.